

What is claimed as invention is:

1. A process for the manufacture of ultra-fine-particle hexanitrostilbene, comprising the steps:

a. mixing hexanitrostilbene with n-methylpyrrolidone at a ratio of 15 grams hexanitrostilbene per 400 ml n-methylpyrrolidone;

b. heating the mixture to a temperature of 82 degrees Celsius;

c. mixing the heated solution with cold water by aspiration;

d. capturing the resulting slurry in a receiver;

e. filtering the slurry; and

f. drying the filtered slurry.

2. The process of claim 1, wherein the step of heating the mixture is held for a time period of approximately one hour.

3. The process of claim 1, wherein the step of mixing the heated solution with cold water is accomplished by drawing it through an aspirator through which water is flowing.

4. The process of claim 1, wherein the step of filtering the slurry uses a 0.45-micron filter.

5. The process of claim 1, wherein the step of drying the filtered slurry is accomplished using freeze drying.

6. A process for the manufacture of ultra-fine-particle hexanitrostilbene, comprising the steps:

a. mixing hexanitrostilbene with n-methylpyrralidone at a ratio of 15 grams hexanitrostilbene per 400 ml n-methylpyrralidone;

b. steam heating the mixture to a temperature of 82

degrees Celsius for a time period of approximately one hour;

c. mixing the heated solution with cold water by drawing it through an aspirator through which water is flowing;

d. capturing the resulting slurry in a receiver;

e. filtering the slurry using a 0.45-micron filter; and

f. freeze drying the filtered slurry.